

## BoscoLighting LED Recessed Downlight Installation Instruction

### Introduction

Thank you for choosing BoscoLighting products.

This document aims to guide a qualified installer or electrician in installing of this product to ensure correct function and safety. Note by Law, certain electrical works must be completed by a licensed electrician. Each State maintains their own licensing system, for more information see [www.erac.gov.au/index.php?Itemid=516](http://www.erac.gov.au/index.php?Itemid=516).

### Warranty

Your BoscoLighting light fitting is covered by a 3 year warranty. Please retain proof of purchase or register your purchases by sending an email to [warranty@boscolighting.com.au](mailto:warranty@boscolighting.com.au) by attaching a copy of your purchase invoice, details of the end user (name, company, phone and address) and electricians company and electrical license number.

Warranty will be void if there is any damage due to improper installation, modification to the fitting except from the standard issued parts and features or used for purposes other than the intended purpose and safety precautions and warnings had been disregarded, site issues like voltage surges, vandalism or rodent damage.

### Safety Instructions

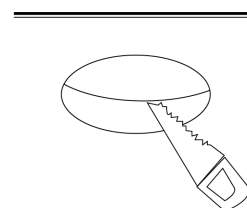
- First and foremost, do not install or operate the fitting if it appears to be damaged in any way. Please inform your local supplier or send an email to [warranty@boscolighting.com.au](mailto:warranty@boscolighting.com.au) as stated on the warranty section of this document.
- Before installation, check the installation location in the ceiling if it has an access to a socket outlet which is connected to a wall switch. If it does not, a socket

should be installed on a lighting circuit according to electrical standards by a licensed electrician.

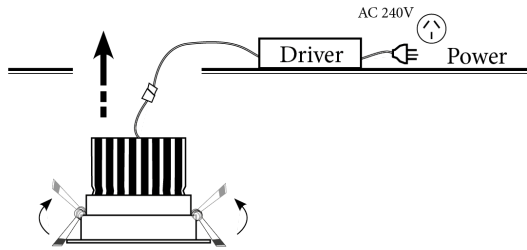
- Before installation, check the installation location in the ceiling if it has an access to a socket outlet which is connected to a wall switch. If it does not, a socket should be installed on a lighting circuit according to electrical standards by a licensed electrician.
- Make sure that you have chosen the suitable light fitting with the correct IP rating based on the installation location or environment. For more detailed information regarding IP ratings, please refer to the IP rating section below.
- Turn off the fuse/circuit breaker that controls the power to the area or fixtures that you are working on. Turn off as well the light switches on your wall and do not forget to test the electrical wires for voltage presence before you start working to avoid unexpected electrical shock.
- Use proper electrical protective gears and electrical tools during the installation.

### Installation Instructions

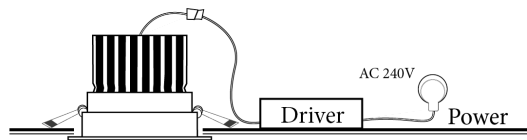
**STEP 1:** Cut hole into the ceiling as per the required cut-out size and shape.



**STEP 2:** Connect the power plug onto the power supply socket. Put the LED driver into the ceiling and carefully insert the LED recessed downlight on the created hole holding the clip pointing upward.

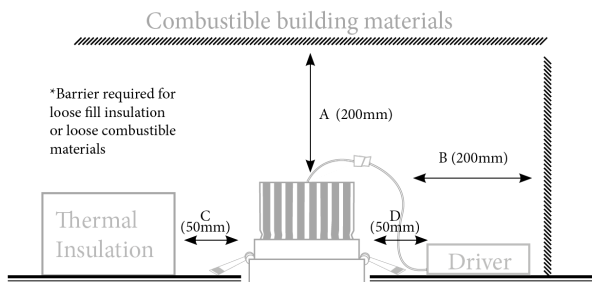


**STEP 3:** Once fully inserted, the clip shall hold perfectly the LED recessed downlight in place.



## Clearance Information

- The LED recessed downlight should have at least a 50mm air gap from any insulation, barriered loose combustible materials or any structural materials. This will help as well to properly dissipate the heat produced by the LED recessed light. Please note that a suitable barrier is required for loose fill insulation or loose combustible materials



Location and Description	Clearance
A- Top clearance to combustible building element	200mm
B- Side clearance to combustible building element	200mm
C- Side clearance to bulk thermal insulation	50mm
D- Clearance to auxiliary equipment(LED drivers)	50mm

## Maintenance

- Make sure that the power to the LED recessed downlight has been turned off and has given the time to cool down after being used before you start of cleaning the lighting fixture. Cleaning must be done at interval schedules to ensure to have a better lighting.
- Use damp clean cloth to wipe the dirt that adhered to the light fitting. Never try to immerse the light fitting in water.
- Use static free gloves when cleaning the luminaire to avoid markings.

## IP Rating

This table provides a quick reference on general use of IP ratings:

IP	Protection	Details
20	Ordinary	LED lights are suitable for all indoor dry applications, such as offices, retail shops, bedrooms, living rooms.
40	Not waterproof	Insects are not likely getting in the lights, but there is no protection from moisture.
42	Drip Proof	LED lights are protected from tools and small wires greater than 1 millimetre. The lights can resist a few drops of water.
44	Splash Proof	Lights are suitable for bathrooms and other applications where water spray is a risk
54	Dust Proof, Splash Proof	Lights have protection against dust and splash, making it suitable for general outdoor use or damp indoor environments.
64	Dust Tight, Splash Proof	Products are fully protected against dust ingress. Also, these lights are protected against water splashing from any direction.
65	Dust Tight, Jet Proof	Products are completely dust tight, as well as protection against low-pressure water jets from any direction.
66	Dust Tight, Watertight	Products are completely dust tight, as well as protection against higher pressure water jets from any direction.
67	Dust Tight, Watertight	Products are completely protected against solid particles, and can be submerged up to 1m in water for up to 30 mins.
68	Dust Tight, Pressure Watertight	Products are hermetically sealed and suitable for continuous immersion in water.

## Disclaimers

- BoscoLighting is not liable where :
  - There is product malfunction and or any damages caused by improper use or installation.
  - Installation has not completed by licensed electricians.

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- Safety instructions have not been properly followed.
  - Damage due to site issues such as voltage surges, rodent damage or vandalism.
  - IP rating reference table has been included on this document to provide guidance for applicable IP rated lights to be used based on the installation environment. Kindly be advised that the lights are not specifically designed to be installed on hazardous and or corrosive areas.
  - Lights has been designed to operate at an ambient temperature of -10°C to 45°C.
  - Lights found out to be tampered with or have been tried to be repaired apart from the supplier/manufacturer during the warranty period shall void the warranty of the product. Hence, any damages caused by the said act will not be BoscoLighting's liability.
  - BoscoLighting has the right to modify or obsolete the design of its products for quality improvement or due to supplier constraints.
  - Products may appear different to product data sheets or installation instructions.